



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association
Copyright © 2014. All Rights ReservedWater Audit Report for: **City of Lompoc Water Division (421008)**Reporting Year: **2018** **1/2018 - 12/2018**

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: **ACRE-FEET PER YEAR**

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

WATER SUPPLIED

Volume from own sources: acre-ft/yr
Water imported: acre-ft/yr
Water exported: acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt: Value: acre-ft/yr
 acre-ft/yr
 acre-ft/yr

Enter negative % or value for under-registration
Enter positive % or value for over-registration

WATER SUPPLIED: acre-ft/yr**AUTHORIZED CONSUMPTION**

Billed metered: acre-ft/yr
Billed unmetered: acre-ft/yr
Unbilled metered: acre-ft/yr
Unbilled unmetered: acre-ft/yr

Click here: for help using option

Pcnt: Value: acre-ft/yr

Use buttons to select percentage of water supplied OR value

AUTHORIZED CONSUMPTION: acre-ft/yr**WATER LOSSES (Water Supplied - Authorized Consumption)** acre-ft/yr**Apparent Losses**Unauthorized consumption: acre-ft/yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies: acre-ft/yrSystematic data handling errors: acre-ft/yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: acre-ft/yr**Real Losses (Current Annual Real Losses or CARL)**Real Losses = Water Losses - Apparent Losses: acre-ft/yr**WATER LOSSES:** acre-ft/yr**NON-REVENUE WATER****NON-REVENUE WATER:** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains: miles
Number of active AND inactive service connections:
Service connection density: conn./mile main

Are customer meters typically located at the curbside or property line? Average length of customer service line:

(length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: psi**COST DATA**

Total annual cost of operating water system: \$/Year
Customer retail unit cost (applied to Apparent Losses): \$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses): \$/acre-ft ☐ Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 62 out of 100 ***

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

1: Volume from own sources

2: Billed metered

3: Customer metering inaccuracies

AWWA 2018 Water Audit Level 1 Validation – Review Document

Audit Information:

Utility: Lompoc PWS ID: 4210006
System Type: Potable Audit Period: Calendar 2018
Utility Representation: Shaun Ryan (Director)
Validation Date: 7/12/2019 Call Time: 10:30am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 62 Data Validity Band (Level): Band III (51-70)
ILI: 1.16 Real Loss: 28.79 (gal/conn/day) Apparent Loss: 3.51 (gal/conn/day)
Non-revenue water as percent of cost of operating system: 2.7%

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

Validator Information:

Water Audit Validator: Larry Lewison, Will Jernigan P.E. Validator Qualifications: Contractor for California Water Loss TAP

Validator Provided

2018 AWWA Water Audit Level 1 Validation

Water System Name:

Water System ID Number:

Water Audit Period:

Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:
<<Information to be completed by Utility>>

Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Utility Provided

Shaun Ryan
Executive Name (Print)

Superintendent
Executive Position

Shaun Ryan
Signature

8/1/19
Date